

Jesus Santamaria

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

280 papers	10,035 citations	51 h-index	85 g-index
290 ext. papers	10,978 ext. citations	6.8 avg, IF	6.2 L-index

#	Paper	IF	Citations
280	Magnetic nanoparticles for drug delivery. <i>Nano Today</i> , 2007 , 2, 22-32	17.9	1164
279	A magnetically triggered composite membrane for on-demand drug delivery. <i>Nano Letters</i> , 2009 , 9, 3651-3657	17.5	308
278	Magnetically triggered nanocomposite membranes: a versatile platform for triggered drug release. <i>Nano Letters</i> , 2011 , 11, 1395-400	11.5	217
277	Development of Magnetic Nanostructured Silica-Based Materials as Potential Vectors for Drug-Delivery Applications. <i>Chemistry of Materials</i> , 2006 , 18, 1911-1919	9.6	210
276	Separations Using Zeolite Membranes. <i>Separation and Purification Reviews</i> , 1999 , 28, 127-177		182
275	Near-infrared-actuated devices for remotely controlled drug delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1349-54	11.5	157
274	Assessing methods for blood cell cytotoxic responses to inorganic nanoparticles and nanoparticle aggregates. <i>Small</i> , 2008 , 4, 2025-34	11	157
273	Separation of CO ₂ /N ₂ mixtures using MFI-type zeolite membranes. <i>AIChE Journal</i> , 2004 , 50, 127-135	3.6	135
272	Cancer-derived exosomes loaded with ultrathin palladium nanosheets for targeted bioorthogonal catalysis. <i>Nature Catalysis</i> , 2019 , 2, 864-872	36.5	119
271	Dehydrogenation of isopropyl alcohol on a Cu/SiO ₂ catalyst: a study of the activity evolution and reactivation of the catalyst. <i>Applied Catalysis A: General</i> , 1996 , 142, 375-386	5.1	115
270	Preparation and characterization of chitosan-silver nanocomposite films and their antibacterial activity against <i>Staphylococcus aureus</i> . <i>Nanotechnology</i> , 2013 , 24, 015101	3.4	109
269	State-of-the-Art in Zeolite Membrane Reactors. <i>Topics in Catalysis</i> , 2004 , 29, 29-44	2.3	107
268	Sustained release of doxorubicin from zeolite-magnetite nanocomposites prepared by mechanical activation. <i>Nanotechnology</i> , 2006 , 17, 4057-64	3.4	106
267	Use of zeolite films to improve the selectivity of reactive gas sensors. <i>Catalysis Today</i> , 2003 , 82, 179-185	5.3	104
266	Zeolite films and membranes. Emerging applications. <i>Microporous and Mesoporous Materials</i> , 2011 , 144, 19-27	5.3	102
265	The use of zeolite films in small-scale and micro-scale applications. <i>Chemical Engineering Science</i> , 2004 , 59, 4879-4885	4.4	100
264	Exosome origin determines cell targeting and the transfer of therapeutic nanoparticles towards target cells. <i>Journal of Nanobiotechnology</i> , 2019 , 17, 16	9.4	97

263	Gold-Triggered Uncaging Chemistry in Living Systems. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12548-12552	16.4	92
262	Methane oxidative coupling using porous ceramic membrane reactorsII. Reaction studies. <i>Chemical Engineering Science</i> , 1994 , 49, 2015-2025	4.4	81
261	Preparation of Magnetic Nanoparticles Encapsulated by an Ultrathin Silica Shell via Transformation of Magnetic Fe-MCM-41. <i>Chemistry of Materials</i> , 2008 , 20, 486-493	9.6	80
260	Methane oxidative coupling using porous ceramic membrane reactorsII reactor development. <i>Chemical Engineering Science</i> , 1994 , 49, 2005-2013	4.4	80
259	Bactericidal effects of different silver-containing materials. <i>Materials Research Bulletin</i> , 2011 , 46, 2070-2076	9.6	79
258	Development of Stable, Water-Dispersible, and Biofunctionalizable Superparamagnetic Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2011 , 23, 2795-2802	9.6	78
257	Highly magnetic silica-coated iron nanoparticles prepared by the arc-discharge method. <i>Nanotechnology</i> , 2006 , 17, 1188-1192	3.4	78
256	Size-dependent transfection efficiency of PEI-coated gold nanoparticles. <i>Acta Biomaterialia</i> , 2011 , 7, 3645-55	10.8	76
255	Uniform luminescent carbon nanodots prepared by rapid pyrolysis of organic precursors confined within nanoporous templating structures. <i>Carbon</i> , 2017 , 117, 437-446	10.4	74
254	A controlled antibiotic release system to prevent orthopedic-implant associated infections: An in vitro study. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 96, 264-71	5.7	73
253	Removal of pollutants from indoor air using zeolite membranes. <i>Journal of Membrane Science</i> , 2004 , 240, 159-166	9.6	72
252	Coupling of reaction and separation at the microscopic level: esterification processes in a H-ZSM-5 membrane reactor. <i>Chemical Engineering Science</i> , 2002 , 57, 1557-1562	4.4	71
251	Scaled-up production of plasmonic nanoparticles using microfluidics: from metal precursors to functionalized and sterilized nanoparticles. <i>Lab on A Chip</i> , 2014 , 14, 325-32	7.2	70
250	Synthesis and stealthing study of bare and PEGylated silica micro- and nanoparticles as potential drug-delivery vectors. <i>Chemical Engineering Journal</i> , 2008 , 137, 45-53	14.7	70
249	Preparation of zeolite NaA membranes on the inner side of tubular supports by means of a controlled seeding technique. <i>Catalysis Today</i> , 2005 , 104, 281-287	5.3	68
248	A dry milling approach for the synthesis of highly active nanoparticles supported on porous materials. <i>ChemSusChem</i> , 2011 , 4, 1561-5	8.3	64
247	Reaction engineering strategies for the production of inorganic nanomaterials. <i>Small</i> , 2014 , 10, 835-53	11	62
246	Comparative study of the synthesis of silica nanoparticles in micromixer/microreactor and batch reactor systems. <i>Chemical Engineering Journal</i> , 2011 , 171, 674-683	14.7	62

245	Synthesis and characterization of ZSM-5 coatings onto cordierite honeycomb supports. <i>Applied Catalysis A: General</i> , 2003 , 253, 257-269	5.1	59
244	Continuous microfluidic synthesis and functionalization of gold nanorods. <i>Chemical Engineering Journal</i> , 2016 , 285, 286-292	14.7	58
243	Synthesis and characterisation of titanosilicate ETS-10 membranes. <i>Microporous and Mesoporous Materials</i> , 2004 , 67, 79-86	5.3	58
242	Synthesis, characterization and separation properties of a composite mordenite/ZSM-5/chabazite hydrophilic membrane. <i>Journal of Membrane Science</i> , 1998 , 149, 99-114	9.6	57
241	A semi-continuous method for the synthesis of NaA zeolite membranes on tubular supports. <i>Journal of Membrane Science</i> , 2004 , 244, 141-150	9.6	57
240	Preparation, characterization and pervaporation performance of mordenite membranes. <i>Journal of Membrane Science</i> , 2003 , 216, 135-147	9.6	57
239	Zeolite-modified cantilevers for the sensing of nitrotoluene vapors. <i>Sensors and Actuators B: Chemical</i> , 2009 , 137, 608-616	8.5	56
238	Characterization of zeolite membranes by temperature programmed permeation and step desorption. <i>Journal of Membrane Science</i> , 2002 , 195, 125-138	9.6	56
237	Antibacterial action of Ag-containing MFI zeolite at low Ag loadings. <i>Chemical Communications</i> , 2011 , 47, 680-2	5.8	55
236	Gas Slug Microfluidics: A Unique Tool for Ultrafast, Highly Controlled Growth of Iron Oxide Nanostructures. <i>Chemistry of Materials</i> , 2015 , 27, 4254-4260	9.6	54
235	Separation of alcohols and alcohols/O ₂ mixtures using zeolite MFI membranes. <i>Journal of Membrane Science</i> , 1998 , 142, 97-109	9.6	54
234	Magneto-plasmonic nanoparticles as theranostic platforms for magnetic resonance imaging, drug delivery and NIR hyperthermia applications. <i>Nanoscale</i> , 2014 , 6, 9230-40	7.7	53
233	Laser-driven heterogeneous catalysis: efficient amide formation catalysed by Au/SiO ₂ systems. <i>Green Chemistry</i> , 2013 , 15, 2043	10	52
232	Oxidative dehydrogenation of butane using membrane reactors. <i>AIChE Journal</i> , 1997 , 43, 777-784	3.6	52
231	Use of a Ceramic Membrane Reactor for the Oxidative Dehydrogenation of Ethane to Ethylene and Higher Hydrocarbons. <i>Industrial & Engineering Chemistry Research</i> , 1995 , 34, 4229-4234	3.9	52
230	Autoimmune/autoinflammatory syndrome induced by adjuvants (ASIA syndrome) in commercial sheep. <i>Immunologic Research</i> , 2013 , 56, 317-24	4.3	51
229	Combustion of Volatile Organic Compounds over Platinum-Based Catalytic Membranes. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4557-4566	3.9	51
228	Gas detection with SnO ₂ sensors modified by zeolite films. <i>Sensors and Actuators B: Chemical</i> , 2007 , 124, 99-110	8.5	51

227	Selective oxidations in micro-structured catalytic reactors for gas-phase reactions and specifically for fuel processing for fuel cells. <i>Catalysis Today</i> , 2007 , 120, 2-20	5.3	51
226	Preparation of inner-side tubular zeolite NaA membranes in a semi-continuous synthesis system. <i>Journal of Membrane Science</i> , 2006 , 278, 401-409	9.6	51
225	Efficient encapsulation of theranostic nanoparticles in cell-derived exosomes: leveraging the exosomal biogenesis pathway to obtain hollow gold nanoparticle-hybrids. <i>Nanoscale</i> , 2019 , 11, 18825-18836	7.7	51
224	Dual encapsulation of hydrophobic and hydrophilic drugs in PLGA nanoparticles by a single-step method: drug delivery and cytotoxicity assays. <i>RSC Advances</i> , 2016 , 6, 111060-111069	3.7	50
223	Preparation of Pt/ZSM-5 films on stainless steel microreactors. <i>Catalysis Today</i> , 2007 , 125, 2-10	5.3	49
222	On the effect of morphological features on the properties of MFI zeolite membranes. <i>Microporous and Mesoporous Materials</i> , 2003 , 60, 99-110	5.3	49
221	Preparation of MFI type tubular membranes by steam-assisted crystallization. <i>Microporous and Mesoporous Materials</i> , 2001 , 50, 195-200	5.3	49
220	On the use of fluidized bed catalytic reactors where reduction and oxidation zones are present simultaneously. <i>Catalysis Today</i> , 2005 , 100, 181-189	5.3	48
219	Beyond gold: rediscovering tetrakis-(hydroxymethyl)-phosphonium chloride (THPC) as an effective agent for the synthesis of ultra-small noble metal nanoparticles and Pt-containing nanoalloys. <i>RSC Advances</i> , 2013 , 3, 10427	3.7	47
218	Development of ceramic membrane reactors with a non-uniform permeation pattern. Application to methane oxidative coupling. <i>Chemical Engineering Science</i> , 1994 , 49, 4749-4757	4.4	47
217	Oxidative Dehydrogenation of n-Butane in a Two-Zone Fluidized-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 90-97	3.9	46
216	Non-oxidative methane conversion in microwave-assisted structured reactors. <i>Chemical Engineering Journal</i> , 2019 , 377, 119764	14.7	44
215	Au-PLA nanocomposites for photothermally controlled drug delivery. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 409-417	7.3	44
214	The Knudsen-diffusion catalytic membrane reactor: An efficient contactor for the combustion of volatile organic compounds. <i>Applied Catalysis B: Environmental</i> , 1996 , 11, L19-L27	21.8	44
213	Amine-functionalized mesoporous silica: A material capable of CO ₂ adsorption and fast regeneration by microwave heating. <i>AIChE Journal</i> , 2016 , 62, 547-555	3.6	43
212	Reported nanosafety practices in research laboratories worldwide. <i>Nature Nanotechnology</i> , 2010 , 5, 93-68.7	68.7	42
211	Antibody-Functionalized Hybrid Superparamagnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2007 , 17, 1473-1479	15.6	42
210	Facile synthesis of SiO ₂ @Au nanoshells in a three-stage microfluidic system. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21420		41

209	Preparation and Characterization of Titanosilicate Ag-ETS-10 for Propylene and Propane Adsorption. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4702-4709	3.8	41
208	A novel device for preparing zeoliteA membranes under a centrifugal force field. <i>Journal of Membrane Science</i> , 2003 , 212, 135-146	9.6	41
207	Simulation of an inert membrane reactor for the oxidative dehydrogenation of butane. <i>Chemical Engineering Science</i> , 1999 , 54, 2917-2925	4.4	41
206	Escaping undesired gas-phase chemistry: Microwave-driven selectivity enhancement in heterogeneous catalytic reactors. <i>Science Advances</i> , 2019 , 5, eaau9000	14.3	40
205	NIR-enhanced drug release from porous Au/SiO ₂ nanoparticles. <i>Chemical Communications</i> , 2010 , 46, 7513-5	5.8	40
204	Preparation of zeolite films as catalytic coatings on microreactor channels. <i>Microporous and Mesoporous Materials</i> , 2008 , 115, 147-155	5.3	40
203	Preparation of mordenite membranes for pervaporation of water-ethanol mixtures. <i>Desalination</i> , 2002 , 148, 25-29	10.3	40
202	Oxidation of Methane to Synthesis Gas in a Fluidized Bed Reactor Using MgO-Based Catalysts. <i>Journal of Catalysis</i> , 1996 , 158, 83-91	7.3	40
201	Gold-coated halloysite nanotubes as tunable plasmonic platforms. <i>New Journal of Chemistry</i> , 2014 , 38, 2037	3.6	38
200	Titania-coated gold nanorods with expanded photocatalytic response. Enzyme-like glucose oxidation under near-infrared illumination. <i>Nanoscale</i> , 2017 , 9, 1787-1792	7.7	38
199	Selective oxidation of CO in the presence of H ₂ , CO ₂ and H ₂ O, on different zeolite-supported Pt catalysts. <i>Applied Catalysis A: General</i> , 2009 , 366, 242-251	5.1	38
198	Oxidative Dehydrogenation of Butane over VMgO Catalysts. <i>Journal of Catalysis</i> , 2000 , 195, 113-124	7.3	38
197	Single phase microreactor for the continuous, high-temperature synthesis of . <i>Chemical Engineering Journal</i> , 2018 , 340, 66-72	14.7	38
196	Monoamine-grafted MCM-48: An efficient material for CO ₂ removal at low partial pressures. <i>Chemical Engineering Journal</i> , 2011 , 175, 291-297	14.7	37
195	Development and application of micromachined Pd/SnO ₂ gas sensors with zeolite coatings. <i>Sensors and Actuators B: Chemical</i> , 2008 , 133, 435-441	8.5	37
194	Development of QCM sensors modified by AlPO ₄ -18 films. <i>Sensors and Actuators B: Chemical</i> , 2006 , 117, 143-150	8.5	37
193	Facile preparation of transparent and conductive polymer films based on silver nanowire/polycarbonate nanocomposites. <i>Nanotechnology</i> , 2013 , 24, 275603	3.4	36
192	Methane oxidative coupling in fixed bed catalytic reactors with a distributed oxygen feed. A simulation study. <i>Catalysis Today</i> , 1992 , 13, 353-360	5.3	36

191	Removal of VOCs at trace concentration levels from humid air by Microwave Swing Adsorption, kinetics and proper sorbent selection. <i>Separation and Purification Technology</i> , 2015 , 151, 193-200	8.3	35
190	Synthesis of Magnetic Nanocrystals by Thermal Decomposition in Glycol Media: Effect of Process Variables and Mechanistic Study. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 8348-8357	3.9	35
189	Preparation of ITQ-29 (Al-free zeolite A) membranes. <i>Microporous and Mesoporous Materials</i> , 2008 , 110, 303-309	5.3	35
188	Pore ordering and surface properties of FDU-12 and SBA-15 mesoporous materials and their relation to drug loading and release in aqueous environments. <i>Materials Research Bulletin</i> , 2014 , 59, 3115-3122	5.1	34
187	Microwave-assisted mild-temperature preparation of neodymium-doped titania for the improved photodegradation of water contaminants. <i>Applied Catalysis A: General</i> , 2012 , 441-442, 47-53	5.1	34
186	Spontaneous formation of Au-Pt alloyed nanoparticles using pure nano-counterparts as starters: a ligand and size dependent process. <i>Nanoscale</i> , 2015 , 7, 10152-61	7.7	33
185	Highly sensitive SERS quantification of organophosphorous chemical warfare agents: A major step towards the real time sensing in the gas phase. <i>Sensors and Actuators B: Chemical</i> , 2018 , 267, 457-466	8.5	33
184	Detection of organic vapours with Si cantilevers coated with inorganic (zeolites) or organic (polymer) layers. <i>Sensors and Actuators B: Chemical</i> , 2012 , 171-172, 822-831	8.5	33
183	Catalytic partial oxidation of methane to synthesis gas in a ceramic membrane reactor. <i>Catalysis Letters</i> , 1995 , 30, 189-199	2.8	33
182	Synthesis and magnetic behavior of ultra-small bimetallic FeCo/graphite nanoparticles. <i>Nanotechnology</i> , 2013 , 24, 505702	3.4	32
181	The use of post-synthetic treatments to improve the pervaporation performance of mordenite membranes. <i>Journal of Membrane Science</i> , 2006 , 270, 32-41	9.6	32
180	Preparation of highly accessible mordenite coatings on ceramic monoliths at loadings exceeding 50% by weight. <i>Chemical Communications</i> , 2004 , 528-9	5.8	32
179	Numerical analysis of microwave heating cavity: Combining electromagnetic energy, heat transfer and fluid dynamics for a NaY zeolite fixed-bed. <i>Applied Thermal Engineering</i> , 2019 , 155, 226-238	5.8	31
178	Electrospun Au/CeO ₂ nanofibers: A highly accessible low-pressure drop catalyst for preferential CO oxidation. <i>Journal of Catalysis</i> , 2015 , 329, 479-489	7.3	31
177	VOCs abatement using thick eggshell Pt/SBA-15 pellets with hierarchical porosity. <i>Catalysis Today</i> , 2014 , 227, 179-186	5.3	31
176	Plasmon-enhanced photocatalytic water purification. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15113-15116	3.66	31
175	Study on the reproducibility of mordenite tubular membranes used in the dehydration of ethanol. <i>Journal of Membrane Science</i> , 2007 , 299, 166-173	9.6	31
174	Synthesis of Maleic Anhydride in an Inert Membrane Reactor. Effect of Reactor Configuration. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 620-625	3.9	31

173	Oxidative dehydrogenation of propane on V/Al ₂ O ₃ catalytic membranes. Effect of the type of membrane and reactant feed configuration. <i>Chemical Engineering Science</i> , 1999 , 54, 1265-1272	4.4	31
172	Development and application of perovskite-based catalytic membrane reactors. <i>Catalysis Letters</i> , 1998 , 54, 69-78	2.8	30
171	MoO ₃ /MgO as a catalyst in the oxidative dehydrogenation of n-butane in a two-zone fluidized bed reactor. <i>Catalysis Today</i> , 2000 , 61, 101-107	5.3	30
170	Separation of propylene/propane mixtures by titanosilicate ETS-10 membranes prepared in one-step seeded hydrothermal synthesis. <i>Journal of Membrane Science</i> , 2008 , 311, 326-335	9.6	29
169	Preparation of Drug-Loaded PLGA-PEG Nanoparticles by Membrane-Assisted Nanoprecipitation. <i>Pharmaceutical Research</i> , 2017 , 34, 1296-1308	4.5	28
168	Surface functionalization for tailoring the aggregation and magnetic behaviour of silica-coated iron oxide nanostructures. <i>Nanotechnology</i> , 2012 , 23, 155603	3.4	28
167	Microwave-Assisted Catalytic Combustion for the Efficient Continuous Cleaning of VOC-Containing Air Streams. <i>Environmental Science & Technology</i> , 2018 , 52, 5892-5901	10.3	27
166	The effect of PEGylated hollow gold nanoparticles on stem cell migration: potential application in tissue regeneration. <i>Nanoscale</i> , 2017 , 9, 9848-9858	7.7	27
165	Synthesis and characterization of ultra-small magnetic FeNi/G and NiCo/G nanoparticles. <i>Nanotechnology</i> , 2012 , 23, 085601	3.4	27
164	Synthesis, Characterization, and Separation Properties of Sn and Ti Silicate Umbite Membranes. <i>Chemistry of Materials</i> , 2006 , 18, 2472-2479	9.6	27
163	Porous orthopedic steel implant as an antibiotic eluting device: prevention of post-surgical infection on an ovine model. <i>International Journal of Pharmaceutics</i> , 2013 , 452, 166-72	6.5	26
162	Enhancing of plasmonic photothermal therapy through heat-inducible transgene activity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 646-56	6	26
161	Use of a polyol liquid collection medium to obtain ultrasmall magnetic nanoparticles by laser pyrolysis. <i>Nanotechnology</i> , 2012 , 23, 425605	3.4	26
160	Zeolite-coated interdigital capacitors for humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2011 , 157, 450-459	8.5	25
159	Use of Zeolite Membrane Reactors for the Combustion of VOCs Present in Air at Low Concentrations. <i>Chemical Engineering Research and Design</i> , 2005 , 83, 295-301	5.5	25
158	A Nanoarchitecture Based on Silver and Copper Oxide with an Exceptional Response in the Chlorine-Promoted Epoxidation of Ethylene. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11158-61	16.4	24
157	Mesoporous silica loaded with peracetic acid and silver nanoparticles as a dual-effect, highly efficient bactericidal agent. <i>Microporous and Mesoporous Materials</i> , 2012 , 161, 84-90	5.3	24
156	Preparation and characterization of two-layered mordenite-ZSM-5 bi-functional membranes. <i>Microporous and Mesoporous Materials</i> , 2006 , 93, 318-324	5.3	24

155	Synthesis and characterization of MCM-48 tubular membranes. <i>Journal of Membrane Science</i> , 2006 , 280, 867-875	9.6	24
154	Catalytic oxidation of butane to maleic anhydride enhanced yields in the presence of CO ₂ in the reactor feed. <i>Applied Catalysis A: General</i> , 2001 , 210, 271-274	5.1	24
153	Encapsulation of titanium dioxide nanoparticles in PLA microspheres using supercritical emulsion extraction to produce bactericidal nanocomposites. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	23
152	Preparation and characterization of Pd-zeolite composite membranes for hydrogen separation. <i>Desalination</i> , 2002 , 147, 425-431	10.3	23
151	Deactivation by Coke of a Cr ₂ O ₃ /Al ₂ O ₃ Catalyst During Butene Dehydrogenation. <i>Journal of Catalysis</i> , 1993 , 142, 59-69	7.3	23
150	Evaluation of gold-decorated halloysite nanotubes as plasmonic photocatalysts. <i>Catalysis Communications</i> , 2014 , 56, 115-118	3.2	22
149	Hollow porous implants filled with mesoporous silica particles as a two-stage antibiotic-eluting device. <i>International Journal of Pharmaceutics</i> , 2011 , 409, 1-8	6.5	22
148	Thermal stability of Al ₂ O ₃ /Al ₂ O ₃ mesoporous membranes. <i>Journal of Membrane Science</i> , 1998 , 147, 173-185	9.6	22
147	Synthesis of a mordenite/ZSM-5/chabazite hydrophilic membrane on a tubular support. Application to the separation of a water-propanol mixture. <i>Chemical Communications</i> , 1998 , 125-126	5.8	22
146	Methane combustion over unsupported iron oxide catalysts. <i>Catalysis Today</i> , 2001 , 64, 43-50	5.3	22
145	Gold-Triggered Uncaging Chemistry in Living Systems. <i>Angewandte Chemie</i> , 2017 , 129, 12722-12726	3.6	21
144	AFM characterization of the growth of MFI-type zeolite films on alumina substrates. <i>Microporous and Mesoporous Materials</i> , 2004 , 71, 33-37	5.3	21
143	Preparation of Silicalite-1 Micromembranes on Laser-Perforated Stainless Steel Sheets. <i>Chemistry of Materials</i> , 2004 , 16, 4847-4850	9.6	21
142	Separation of traces of CO from air using MFI-type zeolite membranes. <i>Journal of Membrane Science</i> , 2002 , 201, 229-232	9.6	21
141	Modelling of a two-zone fluidised bed reactor for the oxidative dehydrogenation of n-butane. <i>Powder Technology</i> , 2001 , 120, 88-96	5.2	21
140	Simulation of the decomposition of di-cumyl peroxide in an ARSST unit. <i>Thermochimica Acta</i> , 2000 , 362, 49-58	2.9	21
139	Influence of the Reaction Atmosphere on the Characteristics and Performance of VPO Catalysts. <i>Journal of Catalysis</i> , 2000 , 196, 1-7	7.3	21
138	Combustion of Volatile Organic Compounds at Trace Concentration Levels in Zeolite-Coated Microreactors. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 6941-6947	3.9	20

- 137 A new titanasilicate umbite membrane for the separation of H₂. *Chemical Communications*, **2005**, 3036-75.8 20
- 136 Temporal and spatial patterning of transgene expression by near-infrared irradiation. *Biomaterials*, **2014**, 35, 8134-8143 15.6 19
- 135 Preparation of stable MCM-48 tubular membranes. *Journal of Membrane Science*, **2009**, 326, 137-144 9.6 19
- 134 Microreactors with Pt/zeolite catalytic films for the selective oxidation of CO in simulated reformer streams. *Catalysis Today*, **2009**, 147, S10-S16 5.3 19
- 133 Mechanically reinforced biodegradable nanocomposites. A facile synthesis based on PEGylated silica nanoparticles. *Polymer*, **2010**, 51, 6132-6139 3.9 19
- 132 Catalytic dehydrogenation of n-butane in a fluidized bed reactor with separate coking and regeneration zones. *Studies in Surface Science and Catalysis*, **2000**, 2717-2722 1.8 19
- 131 Supercritical solvothermal synthesis under reducing conditions to increase stability and durability of Mo/ZSM-5 catalysts in methane dehydroaromatization. *Applied Catalysis B: Environmental*, **2020**, 263, 118360 21.8 19
- 130 Isolation of exosomes from whole blood by a new microfluidic device: proof of concept application in the diagnosis and monitoring of pancreatic cancer. *Journal of Nanobiotechnology*, **2020**, 18, 150 9.4 19
- 129 Bioorthogonal Uncaging of Cytotoxic Paclitaxel through Pd Nanosheet-Hydrogel Frameworks. *Journal of Medicinal Chemistry*, **2020**, 63, 9650-9659 8.3 19
- 128 Polyoxometalates as alternative Mo precursors for methane dehydroaromatization on Mo/ZSM-5 and Mo/MCM-22 catalysts. *Catalysis Science and Technology*, **2019**, 9, 5927-5942 5.5 19
- 127 Drug delivery from internally implanted biomedical devices used in traumatology and in orthopedic surgery. *Expert Opinion on Drug Delivery*, **2010**, 7, 589-603 8 18
- 126 Simulation of an inert membrane reactor for the synthesis of maleic anhydride. *AIChE Journal*, **2000**, 46, 2489-2498 3.6 18
- 125 Laser-driven direct synthesis of carbon nanodots and application as sensitizers for visible-light photocatalysis. *Carbon*, **2020**, 156, 453-462 10.4 18
- 124 On the role of the colloidal stability of mesoporous silica nanoparticles as gene delivery vectors. *Journal of Nanoparticle Research*, **2011**, 13, 4097-4108 2.3 17
- 123 Study on template removal from silicalite-1 giant crystals. *Materials Research Bulletin*, **2009**, 44, 1280-1287 9.1 17
- 122 Regeneration of Coked Catalysts: The Effect of Aging upon the Characteristics of the Coke Deposits. *Industrial & Engineering Chemistry Research*, **1994**, 33, 2563-2570 3.9 17
- 121 Kinetics of catalyst regeneration by coke combustion. I. Increased reaction rate due to the presence of chromium. *Reaction Kinetics and Catalysis Letters*, **1991**, 44, 445-450 17
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